

CWIC Open Search Best Practices

Document

Specifications to adhere to

- [Base specification](#) - **MANDATORY**
- [Parameter extension](#) - **MANDATORY**
- [Geo extension](#) - **MANDATORY**
- [Time extension](#) - **MANDATORY**
- [Relevance extension](#) - **OPTIONAL**
- [OGC candidate specification](#) - **MANDATORY**
- [ATOM](#) - **MANDATORY**

XML Schemas used by the CwicSmart OpenSearch compliance validator

- [OpenSearch.xsd](#) - OpenSearch schema developed by the CwicSmart team based on an existing public domain schema at <http://weblogs.asp.net/wkriebe1/archive/2008/02/04/opensearch-xsd.aspx>
- [ATOM.xsd](#) - public domain schema identical with <https://tools.oasis-open.org/version-control/browse/wsvn/cmis/trunk/SchemaProject/schema/ATOM.xsd>
- [xml.xsd](#) - public domain schema referenced by [ATOM.xsd](#) identical with <https://tools.oasis-open.org/version-control/browse/wsvn/cmis/trunk/SchemaProject/schema/xml.xsd>

Open Search Best Practices to adhere to

- [ESIP](#) - Elements are **MANDATORY** and called out below

Our best practices

Open Search Descriptor Document




-  [CWIC-3](#) - JIRA project doesn't exist or you don't have permission to view it.

Example:




```
https://api.echo.nasa.gov/opensearch/datasets/descriptor_document.xml?clientId=foo
```

```
<os:OpenSearchDescription ...>
  ...
  <os:Url type="application/atom+xml"
    indexOffset="0"








    template="https://api.echo.nasa.gov:443/opensearch/datasets.atom?clientId=foo">
  </os:Url>
  ...
</os:OpenSearchDescription>
```

-  **CWIC-6** - JIRA project doesn't exist or you don't have permission to view it.
 - The upper bound of a 'numberOfResults' parameter should be specified if appropriate. Violation of this contract will result in a BAD_REQUEST response.
 - The use of a parameter profile should be used to describe the characteristics of a searchTerm query language - this needs to be added to the extension but has been approved, in concept, by OGC and ESIP
-  **CWIC-7** - JIRA project doesn't exist or you don't have permission to view it.
 - startPage and count should be used rather than startIndex for result traversal
 - OSDD should specify default values for count, startPage in case client does not provide them [Doug Newman](#) 'there is no support for this in the extension' [Archie Warnock](#) - That's an unfortunate oversight, I think. It's an obvious and unobtrusive place to provide some useful hints to the client.
 - ECHO OpenSearch API examples of OSDDs using parameter extension are [here](#)
-  **CWIC-8** - JIRA project doesn't exist or you don't have permission to view it.

Request

-  **CWIC-9** - JIRA project doesn't exist or you don't have permission to view it.
-  **CWIC-10** - JIRA project doesn't exist or you don't have permission to view it.
-  **CWIC-11** - JIRA project doesn't exist or you don't have permission to view it.

Response

- [Sample CWIC Atom response](#)
-  **CWIC-12** - JIRA project doesn't exist or you don't have permission to view it.
-  **CWIC-13** - JIRA project doesn't exist or you don't have permission to view it.
-  **CWIC-14** - JIRA project doesn't exist or you don't have permission to view it.
- **From CWIC meeting:** clients should not strip unused or unknown parameters - simply leave them untouched. [Doug Newman](#) 'to what end?'
-  **CWIC-15** - JIRA project doesn't exist or you don't have permission to view it.
-  **CWIC-16** - JIRA project doesn't exist or you don't have permission to view it.
-  **CWIC-17** - JIRA project doesn't exist or you don't have permission to view it.
-  **CWIC-21** - JIRA project doesn't exist or you don't have permission to view it.

Error Handling

-  **CWIC-19** - JIRA project doesn't exist or you don't have permission to view it.

Useful tools

- [Atom Feed Validator](#)